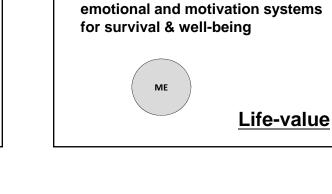
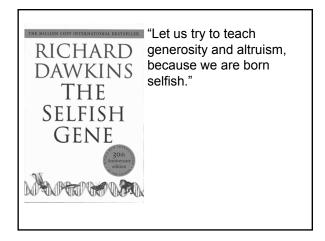
The Impact of Social Neuroscience on Moral Philosophy

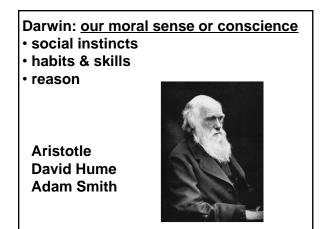
Patricia Churchland Philosophy



UC San Diego & Salk Institute

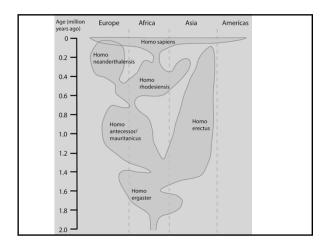




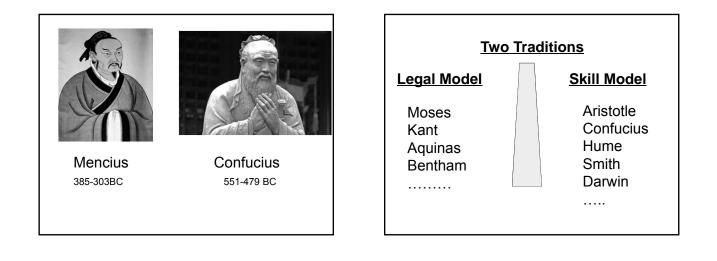


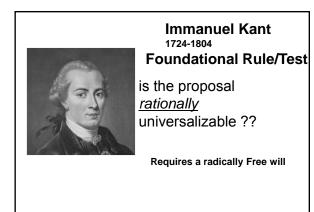
DEEPEST LEVEL OF VALUE

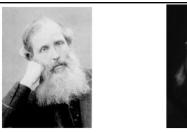
Brainstem & limbic system

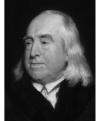












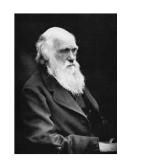
Henry Sidgwick 1838-1900 Maximize aggregate utility

Darwin: <u>our moral sense or conscience</u> • social instincts

habits & skills

reason

Aristotle David Hume Adam Smith



Nonhuman Social Behavior

Neuroendocrinology & Sociality

Basal Ganglia: Skills & Habits

Genetics & Brain Evolution

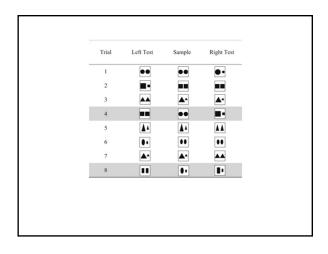
Hippocampus & offline prediction*

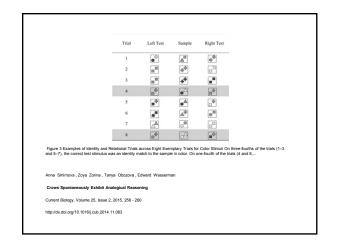
ethology

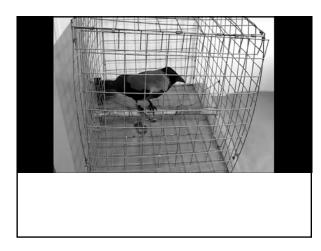


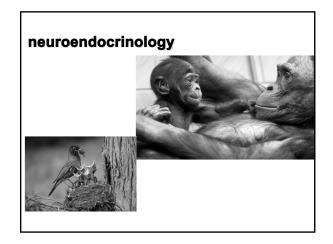
reconciliation, prosocial choice, orphan adoption, empathy, punishment, fairness, self-control, cooperation, reasoning

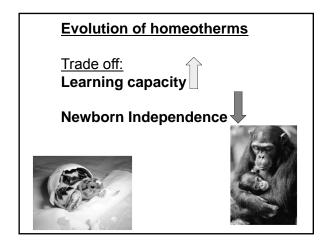


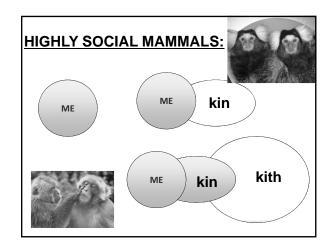










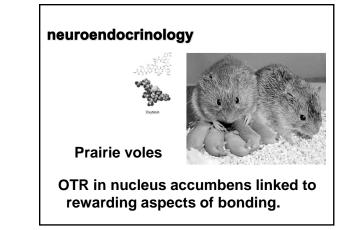


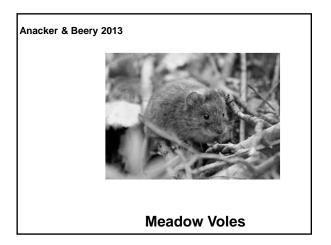
Hypothesis

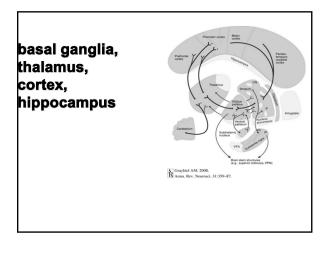
•Sociability: basic value for social mammals: *<u>natural selection</u>*

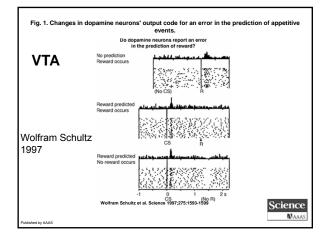
•Hub: oxytocin & opiods

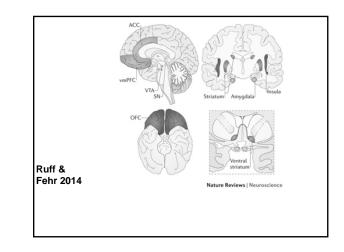
•Norms emerge from reward system

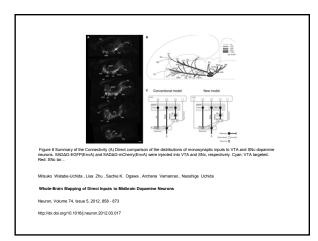


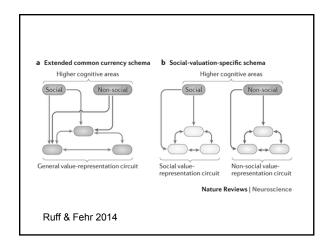


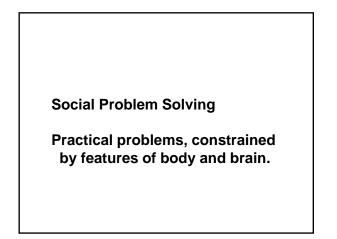


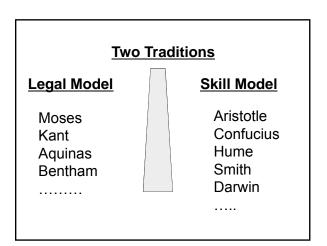












Moral Norms & Values

Not supernatural Not esoteric or Platonic Not unconditional Ancient evolutionary roots

